

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended): A system for providing wireless point-to-multipoint communications, the system comprising:

a at least one first terminal ~~(401, 403, 405)~~ configured to transmit a signal over a wireless link; and

a at least one second terminal ~~(401, 403, 405)~~ configured to receive the signal over the wireless link and to support simultaneously a plurality of channels,

wherein the second terminal is configured to function as a remote and a hub terminal.

2. (currently amended): A system according to Claim 1, wherein the second terminal ~~(401, 403, 405)~~ is configured to operate in at least a first mode for supporting load sharing over the plurality of channels and a second mode to perform testing.

3. (currently amended): A system according to Claim 1, wherein the second terminal ~~(401, 403, 405)~~ is configured to repeat the received signal over one of the plurality of channels.

4. (currently amended): A system according to Claim 1, wherein the second terminal ~~(401, 403, 405)~~ comprises:

an indoor unit ~~(201)~~ including,

a switching engine ~~(309)~~ configured to switch data represented by the received signal, and

a transceiver ~~(303d, 305d)~~ configured to transmit the received signal over one of the plurality of channels; and

a plurality of outdoor units (203, 205) coupled to the indoor unit (201), each of the plurality of outdoor units (203, 205) including a plurality of antennas (203a, 205a) that are at least one of narrow beam antennas and sectorized antennas.

5. (currently amended): A system according to Claim 4, wherein the second terminal (401, 403, 405) further comprises:

a digital modem (303b, 305b) within at least one of the indoor unit (201) and each of the plurality of outdoor units (203, 205).

6. (currently amended): A system according to Claim 4, wherein the second terminal (401, 403, 405) further comprises:

a plurality of fiber optic links (207) for providing the coupling between the plurality of outdoor units (203, 205) and the indoor unit (201).

7. (currently amended): A system according to Claim 4, wherein the switching engine (309) is at least one of an Asynchronous Transfer Mode (ATM) switch, an Internet Protocol (IP) switch, an Ethernet switch, and a Virtual Local Area Network (VLAN) switch..

8. (currently amended): A terminal apparatus for providing wireless point-to-multipoint communications configured to function as a remote terminal and a hub terminal, the terminal apparatus comprising:

a plurality of outdoor units (203, 205) configured to support simultaneously a plurality of channels; and

an indoor unit (201) coupled to the plurality of outdoor units (203, 205) and configured to receive a signal from a hub terminal (401) over a wireless link.

9. (currently amended): A terminal apparatus according to Claim 8, wherein the indoor unit (201) comprises:

a transceiver. (303d, 305d) configured to receive a signal over one of the plurality of communications channels, and

a switching engine (309) configured to switch data represented by the received signal.

10. (currently amended): A terminal apparatus according to Claim 9, wherein the switching engine (309) is at least one of an Asynchronous Transfer Mode (ATM) switch, an Internet Protocol (IP) switch, an Ethernet switch, and a Virtual Local Area Network (VLAN) switch..

11. (currently amended): A terminal apparatus according to Claim 8, wherein each of the plurality of outdoor units (203, 205) comprises:

a plurality of antennas (203a, 205a) that are at least one of narrow beam antennas and sectorized antennas.

12. (currently amended): A terminal apparatus according to Claim 8, wherein the plurality of outdoor units (203, 205) are configured to operate in at least a first mode to support load sharing over the plurality of channels and a second mode to perform testing.

13. (currently amended): A terminal apparatus according to Claim 8, wherein the indoor unit (201) is configured to repeat the received signal over one of the plurality of channels via a corresponding one of the plurality of outdoor units (203, 205).

14. (currently amended): A terminal apparatus according to Claim 8, wherein at least one of the indoor unit (201) and each of the plurality of outdoor units (203, 205) comprises a digital modem (303b, 305b).

15. (currently amended): A terminal apparatus according to Claim 8, further comprising:

a plurality of fiber optic links (207) for providing the coupling between the plurality of outdoor units (203, 205) and the indoor unit (201).

16. (currently amended): A method for providing wireless point-to-multipoint communications, the method comprising:

simultaneously receiving a signal over a communications channel among a plurality of communications channels supported by a single terminal (401, 403, 405); and
selectively repeating the signal to another terminal (401, 403, 405),
wherein the single terminal is configured to function as a remote and a hub terminal.

17. (original): A method according to Claim 16, further comprising:
operating in at least a first mode to support load sharing over the plurality of communications channels and a second mode to perform testing.

18. (currently amended): A method according to Claim 16, further comprising:
switching data represented by the received signal using a switching engine (309) that includes at least one of an Asynchronous Transfer Mode (ATM) switch, an Internet Protocol ([P]) switch, an Ethernet switch, and a Virtual Local Area Network (VLAN) switch.

19. (original): A method according to Claim 16, further comprising:
demodulating the received signal using a predetermined modulation scheme that includes at least one of dual polarization Quadrature Phase Shift Keying (QPSK) and dual polarization Quadrature Amplitude Modulation (QAM).

20. (currently amended): A radio network for providing point-to-multipoint communications, the network comprising:

a hub node (401) configured to transmit radio signals according to a first modulation scheme; and

a plurality of relay nodes (403, 405) configured to receive the signals from the hub node (401) and to forward the signals according to a second modulation scheme to a plurality of radio terminals (401, 403, 405),

wherein at least one of the plurality of radio terminals is configured to function as a remote terminal and a hub terminal.

21. (currently amended): A network according to Claim 20, wherein each of the relay nodes (403, 405) comprises a plurality of terminals (401, 403, 405).

22. (currently amended): A network according to Claim 21, wherein one of the plurality of terminals (401, 403, 405) provides simultaneous transmission over a plurality of channels.

23. (original): A network according to Claim 20, wherein the first modulation scheme includes at least one of Quadrature Phase Shift Keying (QPSK) and Quadrature Amplitude Modulation (QAM), and the second modulation scheme is dual polarization QPSK.

24. (currently amended): A terminal apparatus for providing wireless point-to-multipoint communications configured to function as a remote terminal and a hub terminal, the terminal apparatus comprising:

transmission means for simultaneously supporting a plurality of channels; and
an indoor unit (201) coupled to the transmission means and configured to receive a signal from a hub terminal (401) over a wireless link.

25. (currently amended): A terminal apparatus according to Claim 24, wherein the indoor unit (201) comprises:

a transceiver (303d, 305d) configured to receive a signal over one of the plurality of communications channels, and

a switching engine (309) configured to switch data represented by the received signal.

26. (currently amended): A terminal apparatus according to Claim 25, wherein the switching engine (309) is at least one of an Asynchronous Transfer Mode (ATM) switch, an Internet Protocol (IP) switch, an Ethernet switch, and a Virtual Local Area Network (VLAN) switch.

27. (currently amended): A terminal apparatus according to Claim 24, wherein the transmission means comprises:

a plurality of antennas (203a, 205a), each of the plurality of antennas being at least one of a narrow beam antenna and a sectorized antenna.

28. (original): A terminal apparatus according to Claim 24, wherein the transmission means operates in at least a first mode to support load sharing over the plurality of channels and a second mode to perform testing.

29. (currently amended): A terminal apparatus according to Claim 24, wherein the indoor unit (201) is configured to repeat the received signal over one of the plurality of channels via the transmission means.

30. (currently amended): A terminal apparatus according to Claim 24, wherein at least one of the indoor unit (201) and the transmission means comprises a digital modem (303b, 305b).

31. (currently amended): A terminal apparatus according to Claim 24, further comprising: a plurality of fiber optic links (207) for providing the coupling between the transmission means and the indoor unit (201).

32-35 (canceled)